

Arteritis

Virus Vaccine<130> Not known yet<160> 61 <170> PatentIn version 3.1<210> 1<211>

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## 1281.ST25.txt

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## 1281.ST25.txt

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gttttgactg ccttgttcta ttcctttgta ttagcagctt atatttggtt tgttatagtt 180

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ggaagagcct tttctactgc ttatgctttt gtgcttttgg ctgcttttct gttattagta 240  
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gtggtagctg attttgtgga cacacctagt ggacctgttc ccatcccccg ctcaactact 360  
caggtagtgg ttcgcggcaa cgggtacacc gcagtggta acaagcttgt cgatggcgtc 420  
aagacgatca cgtccgcagg ccgcctcttt tcgaaacgga cggcggcgac agcctacaag 480  
ctacaatga 489

<210> 7<211> 333<212> DNA<213> Artificial Sequence: ORF7 of EAV<400> 7  
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acggacggcg gcgacagcct acaagctaca atgacctact gcgcatgttt ggtagatgc 120  
gggtccgcaa accgcccgcg caaccctctc aggctattat tgcagagcct ggagacctta 180  
ggcatgattt aaatcaacag gagcgcgcca ccctttcgtc gaacgtacaa cggttcttca 240  
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ttctaccaa acaaattccag cgcaaagttg cgc 333

<210> 8<211> 495<212> DNA<213> Artificial Sequence: Partial ORF1  
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gcgccgagtg ttttcgcggt tgcaaggaa tggagcaatg tcctggcttg ttcattgggac 180  
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agctgcgtgt gggtgatgct aggttagcca ttgaagaggc aagtgtgttt atttccactg 360  
accacgcgtc tgctaagcgt ttccctggcg ctagatttgc gctgacaccg gtgtatgcta 420  
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atgggttctg ctggt 495

<210> 9<211> 363<212> DNA<213> Artificial Sequence: Truncated ORF5 of  
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gctgacggat cgcggcggtta ttgccaattt gctgcgatat gatgagcaca ctgctttgta 180  
caattgttcc gccagtaaaa cctgttggtta ttgcacattc ctggacgaac agattatcac 240  
gtttggaacc gattgtgatg acacctacgc ggtcccagtt gctgaggtcc tggaacaggc 300  
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<210> 10<211> 12704<212> DNA<213> Equine arteritis virus<400> 10  
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## 1281.ST25.txt

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
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| tcgttagata  | acggcaagtt  | ccctttctta  | ctatcctatt  | ttcatcttgt  | ggcttgacgg  | 180  |
| gtcactgcca  | tcgtcgtcga  | tctctatcaa  | ctacccttgc  | gactatggca  | accttctccg  | 240  |
| ctactggatt  | tggagggagt  | tttgttaggg  | actgggccct  | ggacttaccc  | gacgcttgtg  | 300  |
| agcatggcgc  | gggattgtgc  | tgcgaagtgg  | acggctccac  | cttatgcgcc  | gagtgttttc  | 360  |
| gcggttgcca  | aggaatggag  | caatgtcctg  | gcttgttcat  | gggactgtta  | aaactggcct  | 420  |
| cgccagttcc  | agtgggacat  | aagttcctga  | ttggttggtg  | tcgagctgcc  | aaagtcaccg  | 480  |
| ggcggttaca  | tttccttgag  | ctggtgcaac  | accctgcttt  | cgccagctg   | cgtgtggttg  | 540  |
| atgctagggt  | agccattgaa  | gaggcaagtg  | tgtttatttc  | cactgaccac  | gcgtctgcta  | 600  |
| agcgtttccc  | tggcgctaga  | tttgcgctga  | caccgggtga  | tgctaacgct  | tgggttgtga  | 660  |
| gcccggctgc  | taacagtttg  | atagtgacca  | ctgaccagga  | acaagatggg  | ttctgctggt  | 720  |
| taaaactttt  | gccacctgac  | cgccgtgagg  | ctggtttgcg  | gttgatttac  | aaccattacc  | 780  |
| gcgaacaaag  | gaccgggtgg  | ctgtctaaaa  | caggacttcg  | cttatggctt  | ggagacctgg  | 840  |
| gtttgggcat  | caatgcgagc  | tctggagggc  | tgaaattcca  | cattatgagg  | ggttcgcttc  | 900  |
| agcgagcttg  | gcataacaca  | acacgcagct  | gcaagctgaa  | gagctactac  | gtttgtgaca  | 960  |
| tctctgaagc  | agactggtcc  | tgtttgccctg | ctggcaacta  | cggcggctac  | aatccaccag  | 1020 |
| gggacggagc  | ttgcgggttac | aggtgcttgg  | ccttcatgaa  | tggcgccact  | gttggtgctcg | 1080 |
| ctgggttgag  | ttctgacttg  | tgggtgtgatg | atgagttggc  | ttatcgagtc  | tttcaattgt  | 1140 |
| caccacggtt  | cacggttacc  | atcccagggtg | ggcgagtttg  | tccgaatgcc  | aagtacgcaa  | 1200 |
| tgatttgtga  | caagcagcac  | tggcgcgctca | aacgtgcaaa  | gggcgtcggc  | ctgtgtctcg  | 1260 |
| atgaaagctg  | tttcaggggc  | atctgcaatt  | gccaacgcat  | gagtggacca  | ccacctgcac  | 1320 |
| ccgtgtcagc  | cgccgtgtta  | gatcacatac  | tggaggcggc  | gacgtttggc  | aacgttcgcg  | 1380 |
| tggttacacc  | tgaagggcag  | ccacgccccg  | taccagcgcc  | gcgagttcgt  | cccagcgcca  | 1440 |
| actcttctgg  | agatgtcaaa  | gatccggcgc  | ccgttccgcc  | agtacaaaa   | ccaaggacca  | 1500 |
| agcttgccac  | accgaaccca  | actcaggcgc  | ccatcccagc  | accgcgcacg  | cgacttcaag  | 1560 |
| gggcctcaac  | acaggagcca  | ctggcgagtg  | caggagttgc  | ttctgactcg  | gcacctaaat  | 1620 |
| ggcgtgtggc  | caaaactgtg  | tacagctccg  | cggagcgctt  | tcggaccgaa  | ctggtacaac  | 1680 |
| gtgctcggtc  | cgttggggac  | gttcttggtc  | aagcgctacc  | gctcaaaacc  | ccagcagtg   | 1740 |
| agcgggtatac | catgactctg  | aagatgatgc  | gttcacgctt  | cagttggcac  | tgcgacgtgt  | 1800 |
| ggtacccttt  | ggctgtaatc  | gcttgtttgc  | tccctatatg  | gccatctctt  | gctttgctcc  | 1860 |
| ttagctttgc  | cattgggttg  | atacccagtg  | tgggcaataa  | tggtgttctg  | acagcgcttc  | 1920 |
| tggtttcatc  | agctaattat  | gttgcgtaaa  | tggaccatca  | atgtgaaggt  | gcggcttgct  | 1980 |
| tagccttgct  | ggaagaagaa  | cactattata  | gagcgggtccg | ttggcgccccg | attacaggcg  | 2040 |
| cgctgtcgct  | tgtgctcaat  | ttactggggc  | aggtaggcta  | tgtagctcgt  | tccacctttg  | 2100 |



## 1281.ST25.txt

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| gccgcaatcg | ttgctggaga  | tgcttcggac  | gctgtgtgcg  | agttgggcct  | gccacgcatg  | 2220 |
| ttttgggctc | caccgggcaa  | cgagtttcca  | aactggcgct  | cattgatttg  | tgtgaccact  | 2280 |
| tttcaaagcc | caccatcgat  | gttgtgggca  | tggaactgg   | ttggagcgga  | tgttacacag  | 2340 |
| gaaccgccgc | aatggagcgt  | cagtgtgcct  | ctacggtgga  | ccctcactcg  | ttcgaccaga  | 2400 |
| agaaggcagg | agcgactgtt  | tacctaccc   | cccctgtcaa  | cagcgggtca  | gcgctgcagt  | 2460 |
| gcctcaatgt | catgtggaag  | cgaccaattg  | ggtcactgt   | ccttggggaa  | caaacaggag  | 2520 |
| ctgttgtgac | ggcgggtcaag | agtatctctt  | tctcacctcc  | ctgctgcgtc  | tctaccactt  | 2580 |
| tgcccacccg | accggtgtg   | accgttgtcg  | accatgctct  | ttacaaccgg  | ttgactgctt  | 2640 |
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| ggttccggct | gataggtgga  | tggatttatg  | ggatatgcta  | ttttgtgttg  | gtggttgtgt  | 2760 |
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| gagtgttttc | tgtacccgtc  | accaagaccc  | aagagcactg  | ccatgctgga  | atgtgtgcta  | 2880 |
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| cagccgtcac | tagcggatta  | gtgatcttgt  | tggcttgcca  | ccgcctggcc  | atcagcgcct  | 3000 |
| tggacttggt | gactctagct  | tcccctttag  | tgttgcttgt  | gttcccttgg  | gcatctgtgg  | 3060 |
| ggcttttact | tgcttgacgt  | ctcgtcgttg  | ctgctgtgaa  | aatacagttg  | ttggcgacgc  | 3120 |
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| gtgtgacacc | tgccattttt  | ctgctgctgg  | cgaggtcagc  | tggacagtca  | agagagcaga  | 3300 |
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| aagaaggctt | gctcagtggc  | gaggtttgtc  | tggcgtggac  | tactagtggc  | gactctggat  | 3780 |
| ctgcagtgg  | tcagggtgac  | gctgtggtag  | gggtccacac  | cggttcgaac  | acaagtgggtg | 3840 |
| ttgcctacgt | gaccacccca  | agcggaaaac  | tccttgggcg  | cgacaccgtg  | actttgtcat  | 3900 |
| cactgtcaaa | gcatttcaca  | ggccctttga  | catcaatccc  | gaaggacatc  | cctgacaaca  | 3960 |
| ttattgccga | tgttgatgct  | gttcctcggt  | ctctggccat  | gctgattgat  | ggcttatcca  | 4020 |
| atagagagag | cagcctttct  | ggacctcagt  | tgttgtaaat  | tgcttgtttt  | atgtggctct  | 4080 |
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## 1281.ST25.txt

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| caccgctttc  | catgcgcttg  | tgcttgttcc | atctggtctg  | tgctaccgtc  | acgggaaacg | 4260 |
| tgatatcttt  | gtggttctac  | atcactgccg | ctggcacgtc  | ttacctttct  | gagatgtggt | 4320 |
| tcggaggcta  | tcccaccatg  | ttgtttgtgc | cacggttcct  | agtgtaccag  | ttccccggct | 4380 |
| gggctattgg  | cacagtacta  | gcggtatgca | gcatacccat  | gctggctgct  | gccctcggtc | 4440 |
| acaccctgtt  | actggatgtg  | ttctccgcct | caggctcgctt | tgacaggact  | ttcatgatga | 4500 |
| aatacttcct  | ggagggagga  | gtgaaagaga | gtgtcaccgc  | ctcagtcacc  | cgcgcttatg | 4560 |
| gcaaaccaat  | taccaggag   | agtctcactg | caacattagc  | tgccctcact  | gatgatgact | 4620 |
| tccaattcct  | ctctgatgtg  | cttgactgtc | gggccgtccg  | atcggcaatg  | aatctgcgtg | 4680 |
| ccgctctcac  | aagttttcaa  | gtggcgcagt | atcgtaacat  | ccttaatgca  | tccttgcaag | 4740 |
| tcgatcgtga  | cgctgctcgt  | agtcgcagac | taatggcaaa  | actggctgat  | tttgcggttg | 4800 |
| aacaagaagt  | aacagctgga  | gaccgtgttg | tggttatcga  | cggtctggac  | cgcatggctc | 4860 |
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| gcaggagacg  | ccgcaagggc  | ctgcctaaag | gtgctcagtt  | ggagtgggac  | cgtcaccagg | 5040 |
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| cctatcagaa  | agtggttgac  | tattcaggca | atgtgcatta  | cgtggagcat  | caggaagatc | 5220 |
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| acctcacaaa  | catgcttaaa  | gtggacccca | cggagctctc  | ctccaaagac  | aaagccaagg | 5340 |
| cgcgtcagct  | tgctcatctg  | ctgttggaac | tggttaaccc  | agttgaggca  | gtgaatcagt | 5400 |
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| taaagacaag  | ggtttcgtgg  | ctctacacag | tcgcacaatg  | tttttagctg  | cccgggactt | 5520 |
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| gcttggggtac | gtacgcgcct  | gccctgggta | ctggtttatt  | ttccgtcgta  | cgcacccgtc | 5640 |
| gctgattgat  | gcatactggg  | acagtatgga | gtgcgtttac  | gcgcttccca  | ccatatctga | 5700 |
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| cggagcctct  | tattcctatg  | atgacaaggt | ggcagctgct  | gtcagtgggtg | acccgtatcg | 5880 |
| gtcggacggc  | gtcttgata   | acaccggtg  | gggcaacatt  | ccatattctg  | tcccaaccaa | 5940 |
| tgctttggaa  | gccacagctt  | gctaccgtgc | tggatgtgag  | gccgttaccg  | acgggaccaa | 6000 |
| cgatcatcga  | acaattgggc  | ccttcccggg | gcaacaaccc  | ataccggaca  | tcccaaagag | 6060 |
| cggtcttgac  | aactgcgtg   | acatcagctg | tgacgctttc  | atagcggccg  | ctgcagagac | 6120 |
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## 1281.ST25.txt

|            |             |             |            |            |            |      |
|------------|-------------|-------------|------------|------------|------------|------|
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| cttgccatct | actgtaccat  | ctaaaaattc  | acaagccgga | attaacggcg | ctgagtttcc | 6300 |
| tacaaagtct | ttacagagct  | actgtttgat  | tgatgacatg | gtgtcacagt | ccatgaaaag | 6360 |
| caatctacaa | accgccacca  | tggcgacttg  | taaacggcaa | tactgttcca | aatacaagat | 6420 |
| taggagcatt | ctgggcacca  | acaattacat  | tggcctaggt | ttgcgtgcct | gcctttcggg | 6480 |
| ggttacggcc | gcattccaaa  | aagctggaaa  | ggatgggtca | ccgatttatt | tgggcaagtc | 6540 |
| aaaattcgac | ccgataccag  | ctcctgacaa  | gtactgcctt | gaaacagacc | tggagagttg | 6600 |
| tgatcgctcc | accccggtt   | tggcggttg   | gttcgctact | aatcttattt | ttgagctagc | 6660 |
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| gggtagtgta | gcattcacca  | aacgcggggg  | tttgtcatct | ggagacccta | tcacttccat | 6780 |
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| aggctatttc | ccagagattg  | cagaaaaata  | tcttgatggc | agcctggagc | tgcgggacat | 6900 |
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| ggactccatt | atctgctgtg  | atgaagactg  | gtggacggac | ctccatcgac | gtatcagtgg | 7260 |
| cgctgcgcgt | accgacggag  | ttgagttccc  | caccattgaa | atgttaacat | ccttccgcac | 7320 |
| caagcagtat | gagagtgccg  | tgtgcacagt  | ttgtggggcc | gccccgtgg  | ccaagtctgc | 7380 |
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| caaacaagcg | ggcgccgatc  | catactttgt  | ggtgcccaag | tatacagttc | ttgactttcc | 7980 |
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| aacctttgtg | gatgaggtgg  | cctacttctc  | accagtggat | ctggcgcgca | ttttaacca  | 8100 |
| gggtcgagtc | aagggttacg  | gtgatttaaa  | tcagctcggg | tgcgtcggac | ccgcgagcgt | 8160 |
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## 1281.ST25.txt

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| attccctgtt | gtgactcttc  | gactgcccac  | accccaatca  | ctgacgcgcc  | cgcgcgagct | 8460  |
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| agcatgccac | ctgggccaaag | aaattgacct  | ttggtccaat  | gagggcctcg  | aatattacaa | 8640  |
| ggaagtcaac | ctgctgtaca  | cacacgtccc  | catcaaggat  | ggtgtaatac  | acagttaccc | 8700  |
| taattgtggc | cctgcctgtg  | gctgggaaaa  | gcaatccaac  | aaaatttcgt  | gcctcccgag | 8760  |
| agtggcacia | aatttgggct  | accactattc  | cccagactta  | ccaggatttt  | gccccatacc | 8820  |
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| aattacctta | cagcaagtat  | gtgaactcag  | taaaccgtgc  | tcagcgggct  | atatgggttg | 8940  |
| acaatctgtt | ttcgtgcaga  | cgcctgggtg  | gacatcttac  | tggcttactg  | aatgggtcga | 9000  |
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| gggagaaatt | aataagtcca  | ccgtgggagg  | atcccacttc  | atcttttccc  | aatatttacc | 9180  |
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| taaagctgct | tgcagcggtg  | ttgatgtcta  | tgctccatca  | tttgaacctt  | atctacaccc | 9300  |
| tgagacactg | agtcgcgtgt  | acaagattat  | gatcgatttc  | aagccgtgta  | ggcttatggg | 9360  |
| gtggagaaac | gcgacctttt  | atgtccaaga  | gggtgttgat  | gcagttacat  | cagcactagc | 9420  |
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| ggccgcagct | tggtggcgcg  | gtgttcacga  | ggtgcgcgtt  | acagacctgt  | ttaaggattt | 9960  |
| gcagtgcgac | aacctgcgcg  | cgaagatgc   | cttcccaggt  | ctgggatatg  | ctctgtcgat | 10020 |
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| ggagtcttct | agctatgctc  | catttatcaa  | tgcttatcgg  | caggcaattt  | tgagtcaata | 10200 |
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## 1281.ST25.txt

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